

## WHAT IS CLAIMED IS:

1. A position micro-perturbation device, comprising:
  - a first optical lens;
  - at least two wedge-shaped lenses which are rotatable and

5 mounted adjacent to said first optical lens; and

  - a photodetector for receiving light emitting from both said first optical lens and said wedge-shaped lenses;

wherein said wedge-shaped lenses are mounted between said first optical lens and said photodetector, the image passing through said first 10 optical lens is incident upon said photodetector by the deflection of said wedge-shaped lenses, and said wedge-shaped lenses being then rotated to cause position micro-perturbation by displacing the image incident upon said photodetector.
2. The position micro-perturbation device of claim 1, further 15 comprising a second optical lens mounted between said wedge-shaped lenses and said photodetector to focus the light or image from said wedge-shaped lenses on said photodetector.
3. The position micro-perturbation device of claim 1, further comprising at least two rotating disks to mount said wedge-shaped lenses 20 thereon.
4. The position micro-perturbation device of claim 3, further comprising at least one driving unit for driving the rotation of said rotating disks.
5. The position micro-perturbation device of claim 4, wherein said

driving unit is a step motor.

6. The position micro-perturbation device of claim 1, wherein said wedge-shaped lenses can be rotated in opposite directions to change the light path of the image from said first optical lens to be incident upon an  
5 adjacent position.

7. The position micro-perturbation device of claim 1, wherein said wedge-shaped lenses can be rotated over a full 360 degree range.

8. The position micro-perturbation device of claim 1, wherein said photodetector is a charge-coupled device.

10 9. The position micro-perturbation device of claim 1, wherein said wedge-shaped lenses are mounted coaxially.

10. The position micro-perturbation device of claim 1, wherein the inclined angle between the light-incident plane and the lateral surface of each wedge-shaped lens is less than 30 degrees.

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